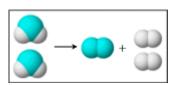
<u>Name</u> P	eriod
Skill 27.01 Problem 1	
Classify each reaction as one of the following types: decomposition, synthesis, single replace	ment,
double replacement, combustion	
(a) $Ba(OH)_2(s) + AgNO_3(aq) \rightarrow Ba(NO_3)_2(aq) + AgOH(s)$	
(b) $Na(s) + H_2O(1) \rightarrow NaOH(aq) + H_2$	
(a) C <sub>2</sub> (OH) (b) \ C <sub>2</sub> O(c) + H O(c)	
(c) $Ca(OH)_2(s) \rightarrow CaO(s) + H_2O(g)$	
$(d) Zn(s) + I2(s) \rightarrow ZnI(s)$	
Skill 27.01 Problem 2	
(a) Write each reaction (b) Classify each reaction as one of the following types: decomposition	on,
synthesis, single replacement, double replacement, combustion	,
(a) A piece of sodium (Na) metal is placed in water (H <sub>2</sub> O) and produces hydrogen (H <sub>2</sub> ) gas	and sodium
hydroxide (NaOH)	
(b) When zinc (Zn) metal is added to an aqueous solution of copper chloride (CuCl <sub>2</sub> ), solid c	opper (Cu)
precipitates and aqueous zinc chloride (ZnCl <sub>2</sub> ) is produced.	
(a) When call develop (C) combacts in a limited annulu of course (O) contain mannila (C	70):-
(c) When solid carbon (C) combusts in a limited supply of oxygen (O <sub>2</sub> ), carbon monoxide (O produced.	(JO) gas is
produced.	
(d) When methane gas (CH <sub>4</sub> ) is burned, carbon dioxide (CO <sub>2</sub> ) gas and water (H <sub>2</sub> O) vapor are	produced.
	-

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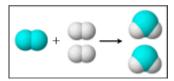
## Skill 27.01 Problem 3

Classify each reaction as one of the following types: decomposition, synthesis, single replacement, double replacement, combustion

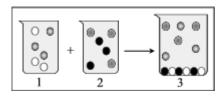
(a)



(b)



(c)



## Skill 27.02 Problem 1

Balance the following reactions:

(a)	Na +	$O_2 \rightarrow$	Na <sub>2</sub> O

(b)  $K + Cl_2 \rightarrow KCl$ 

(c)  $Al + NiSO_4 \rightarrow 3Ni + Al_2(SO_4)_3$ 

(d)  $CH_4 + O_2 \rightarrow CO_2 + H_2O$ 

(e)  $Na + H_2O \rightarrow NaOH + H_2$ 

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